

Analysis: Missing Social Security Numbers (SSN) in the California Community Colleges (CCC) Management Information System

Student Social Security Numbers (SSNs) are used to determine First-Time Freshman (FTF) status in the California Community College (CCC) system. The process for determining FTF involves identifying prior enrollments outside the CCC system through a match with data from the National Student Clearinghouse (NSC), the University of California (UC) and California State University (CSU). SSNs are also used to match student records with baccalaureate-granting institutions to establish subsequent transfers and to link students with wage data from California's Employment Development Department (EDD) for specific projects. The purpose of the analysis reported below is to assess the quality of the SSN data statewide and for each community college.

The Student Identifier (SB00) is the data element in the Management Information System (MIS) that uniquely identifies a student for all terms and at all community colleges. In general, the student's SSN is reported in this data element. If a student does not have, or declines to use an SSN, the system requires the college to assign a unique number instead. This locally assigned identifier is distinct to a particular college or district and, therefore, it does not apply statewide and cannot be used to establish FTF status or match with datasets from other systems.

In this analysis, the percentage of missing SSNs is the proportion of students with local identifiers within the entire student population. Data were extracted from the CCC MIS in November 2017, and include first-time credit students enrolled from 2010-11 through 2016-17.

The number and percentage of missing SSNs statewide for seven academic years are presented in Table 1 and range from 7.8% to 11.7% during the period from 2010-11 to 2016-17. Table 2 displays the percentage of missing SSNs by college for credit students only. These range from 0.5% to 42.3% in 2016-17.

Table 1: Missing SSNs Statewide Credit Students							
	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17
SSNs¹	670,677	573,421	524,792	546,301	540,712	498,632	487,262
Local Identifiers²	56,435	50,241	49,470	50,165	56,837	60,088	64,305
Percent Missing SSNs³	7.8%	8.1%	8.6%	8.4%	9.5%	10.8%	11.7%

¹ Valid SSN in the CCCC MIS.

² Not a valid SSN or declines to state; assigns a unique local identifier

³ $[Local\ Identifiers / (SSNs + Local\ Identifiers)] * 100$

Table 2: Percent Missing SSNs for Credit Students by College

COLLEGE	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17
Alameda	5.8%	6.5%	7.7%	5.9%	12.8%	13.0%	17.4%
Allan Hancock	1.4%	1.7%	2.2%	2.3%	1.2%	1.6%	7.7%
American River	4.0%	3.6%	4.4%	4.2%	4.6%	5.4%	5.7%
Antelope Valley	1.5%	1.1%	1.1%	0.4%	0.6%	1.1%	1.1%
Bakersfield	1.9%	2.4%	3.0%	3.2%	3.0%	3.5%	3.9%
Barstow	8.0%	4.3%	2.5%	1.4%	1.5%	2.6%	2.5%
Berkeley City	6.2%	7.6%	9.1%	7.0%	13.9%	12.6%	16.1%
Butte	4.8%	3.7%	4.2%	5.7%	4.6%	6.1%	5.0%
Cabrillo	3.7%	3.9%	3.5%	3.6%	5.3%	5.9%	6.4%
Cañada	15.0%	16.9%	21.9%	19.6%	23.0%	21.3%	24.4%
Canyons	6.5%	4.2%	3.8%	5.0%	9.5%	7.3%	9.8%
Cerritos	4.9%	3.9%	5.0%	3.7%	3.4%	2.8%	3.5%
Cerro Coso	0.8%	0.9%	1.4%	0.9%	1.0%	1.4%	4.3%
Chabot	4.7%	5.5%	5.7%	5.1%	4.6%	3.7%	3.8%
Chaffey	4.8%	5.3%	5.9%	5.4%	6.5%	8.2%	7.6%
Citrus	5.1%	5.4%	5.9%	6.7%	9.5%	8.7%	8.3%
Clovis	2.3%	1.4%
Coastline	4.4%	3.5%	3.2%	2.6%	5.6%	7.4%	8.0%
Columbia	7.9%	0.4%	0.2%	0.4%	1.7%	1.6%	1.8%
Compton	5.9%	5.1%	5.9%	5.3%	4.6%	8.5%	12.0%
Contra Costa	10.9%	10.6%	10.7%	13.1%	12.4%	12.8%	10.4%
Copper Mountain	0.7%	0.3%	1.4%	0.5%	0.6%	0.6%	0.5%
Cosumnes River	1.7%	1.8%	2.4%	1.9%	3.0%	3.0%	3.5%
Crafton Hills	1.6%	1.7%	1.5%	1.3%	0.9%	3.1%	2.5%
Cuesta	3.5%	3.8%	2.7%	2.8%	14.4%	28.5%	36.1%
Cuyamaca	5.3%	3.0%	2.1%	1.6%	1.3%	2.8%	4.4%
Cypress	3.7%	3.9%	3.8%	4.0%	2.8%	3.5%	4.9%
De Anza	9.0%	9.9%	10.2%	9.7%	14.3%	16.2%	14.1%
Desert	6.4%	5.4%	7.0%	7.8%	6.7%	7.5%	7.2%
Diablo Valley	8.0%	9.5%	10.0%	9.7%	10.4%	12.1%	11.5%
East Los Angeles	32.5%	27.6%	28.6%	31.5%	39.1%	37.5%	42.3%
El Camino	7.4%	7.6%	7.9%	7.1%	6.4%	7.8%	7.0%
Evergreen Valley	17.0%	23.8%	24.6%	9.1%	12.8%	15.1%	11.7%
Feather River	19.7%	7.8%	7.3%	3.9%	6.2%	8.8%	6.1%
Folsom Lake	2.3%	2.2%	3.1%	3.9%	3.3%	3.9%	4.0%
Foothill	10.5%	9.9%	8.8%	7.9%	9.8%	9.3%	9.1%
Fresno City	3.4%	3.7%	3.6%	6.8%	12.7%	14.9%	19.1%
Fullerton	4.8%	3.9%	4.3%	4.3%	3.5%	4.4%	6.7%
Gavilan	42.7%	25.4%	22.8%	20.7%	5.4%	10.1%	2.7%

Table 2: Percent Missing SSNs for Credit Students by College

COLLEGE	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17
Glendale	6.9%	8.1%	8.6%	10.5%	8.2%	15.4%	12.8%
Golden West	4.8%	2.9%	3.1%	3.1%	4.3%	5.5%	5.8%
Grossmont	5.3%	5.1%	5.8%	4.1%	3.9%	6.5%	6.4%
Hartnell	0.8%	0.7%	8.0%	25.5%	37.7%	38.3%	22.7%
Imperial Valley	1.4%	0.4%	1.9%	1.7%	0.5%	0.7%	1.3%
Irvine Valley	7.6%	7.7%	9.6%	10.7%	8.4%	9.7%	9.0%
Lake Tahoe	3.8%	38.3%	6.3%	3.7%	3.1%	9.0%	13.4%
Laney	6.6%	8.0%	9.9%	7.3%	13.5%	16.0%	16.6%
Las Positas	4.9%	5.9%	5.6%	5.6%	5.6%	4.5%	4.4%
Lassen	12.3%	16.9%	21.6%	20.4%	20.0%	21.9%	23.4%
Long Beach City	10.8%	5.9%	3.5%	2.3%	1.9%	1.6%	2.1%
Los Angeles City	17.0%	17.9%	16.8%	16.7%	20.8%	25.8%	30.9%
Los Angeles Harbor	8.3%	8.6%	9.2%	9.9%	10.6%	10.0%	11.8%
Los Angeles Mission	21.9%	17.5%	18.3%	20.7%	24.9%	23.4%	28.7%
Los Angeles Pierce	10.1%	9.7%	11.2%	9.8%	11.9%	13.7%	13.9%
Los Angeles Southwest	20.3%	23.4%	23.9%	22.0%	8.2%	10.0%	9.6%
Los Angeles Trade-Tech	12.7%	12.4%	13.9%	14.1%	12.6%	19.9%	27.4%
Los Angeles Valley	14.9%	11.7%	14.2%	14.8%	14.2%	16.4%	13.8%
Los Medanos	4.6%	5.6%	4.0%	3.8%	5.4%	9.1%	9.5%
Marin	9.0%	8.5%	10.0%	7.3%	8.3%	13.5%	16.0%
Mendocino	4.7%	7.7%	10.5%	11.8%	5.6%	8.6%	18.9%
Merced	5.0%	3.8%	4.3%	4.1%	4.2%	7.1%	8.3%
Merritt	4.5%	4.1%	5.6%	4.3%	8.9%	15.6%	14.6%
MiraCosta	3.6%	3.5%	3.3%	3.1%	5.0%	3.9%	4.0%
Mission	6.4%	5.8%	6.3%	5.9%	8.6%	11.6%	13.4%
Modesto	1.9%	1.7%	2.1%	0.6%	0.9%	1.0%	0.5%
Monterey Peninsula	15.7%	31.0%	26.1%	18.9%	8.7%	12.3%	21.4%
Moorpark	3.1%	2.9%	3.0%	3.5%	3.5%	4.9%	5.0%
Moreno Valley	2.8%	4.5%	5.4%	1.0%	0.7%	1.5%	2.2%
Mt. San Antonio	5.3%	4.4%	5.6%	4.9%	7.0%	5.9%	7.7%
Mt. San Jacinto	2.8%	2.0%	1.7%	1.3%	1.4%	1.6%	1.3%
Napa Valley	2.9%	3.6%	3.1%	3.3%	3.4%	6.4%	5.1%
Norco	2.0%	1.2%	4.2%	2.2%	2.5%	2.3%	2.4%
Ohlone	17.7%	15.2%	19.1%	26.1%	31.6%	28.6%	22.9%
Orange Coast	6.3%	5.2%	6.5%	6.7%	8.4%	9.6%	9.0%
Oxnard	3.6%	3.0%	3.6%	3.3%	3.2%	2.5%	4.8%
Palo Verde	26.6%	22.0%	26.3%	46.4%	29.6%	37.0%	28.7%
Palomar	2.9%	2.5%	3.1%	2.7%	2.4%	2.7%	3.4%
Pasadena City	6.8%	8.5%	9.1%	12.5%	6.3%	8.4%	11.8%

Table 2: Percent Missing SSNs for Credit Students by College

COLLEGE	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17
Porterville	1.0%	2.0%	2.0%	3.2%	2.5%	2.7%	3.1%
Redwoods	2.6%	2.0%	1.4%	2.1%	2.8%	5.1%	15.2%
Reedley	3.2%	3.7%	4.4%	5.3%	9.1%	14.7%	28.4%
Rio Hondo	17.8%	11.2%	11.2%	15.3%	18.4%	22.4%	24.2%
Riverside City	3.3%	4.2%	9.9%	4.0%	4.8%	6.5%	5.3%
Sacramento City	2.5%	3.0%	4.6%	5.2%	7.4%	8.4%	7.9%
Saddleback	5.1%	4.9%	6.3%	7.2%	7.4%	9.2%	9.0%
San Bernardino Valley	2.8%	3.1%	4.5%	2.9%	3.1%	3.5%	4.2%
San Diego City	5.7%	6.1%	6.7%	7.3%	6.4%	7.1%	6.1%
San Diego Mesa	9.1%	9.6%	11.3%	12.5%	11.0%	8.7%	5.0%
San Diego Miramar	6.6%	5.3%	5.0%	4.5%	3.7%	4.1%	4.5%
San Francisco City	8.8%	10.0%	10.5%	7.8%	7.4%	7.9%	9.0%
San Joaquin Delta	2.3%	2.3%	3.2%	1.5%	1.3%	1.6%	2.0%
San Jose City	8.8%	4.9%	5.5%	5.3%	8.1%	6.9%	11.7%
San Mateo	12.3%	9.2%	8.1%	7.3%	10.5%	20.9%	22.8%
Santa Ana	20.5%	24.9%	31.5%	33.6%	40.1%	40.2%	39.3%
Santa Barbara City	16.6%	16.8%	20.1%	16.5%	31.1%	17.7%	17.8%
Santa Monica	10.9%	12.3%	14.2%	12.6%	12.0%	12.0%	14.1%
Santa Rosa	4.3%	4.5%	6.3%	8.4%	10.6%	9.4%	8.0%
Santiago Canyon	2.4%	2.5%	2.9%	2.9%	3.4%	6.6%	5.2%
Sequoias	3.9%	4.2%	5.4%	1.9%	1.1%	2.1%	2.2%
Shasta	2.7%	2.1%	3.6%	7.8%	8.6%	18.0%	36.6%
Sierra	2.5%	2.3%	2.5%	1.8%	1.6%	3.7%	2.8%
Siskiyou	15.7%	4.2%	1.4%	6.8%	3.6%	12.8%	29.5%
Skyline	4.8%	6.2%	6.0%	6.2%	9.6%	13.6%	17.5%
Solano	1.7%	2.4%	2.9%	3.2%	5.4%	6.6%	4.9%
Southwestern	4.0%	4.5%	4.2%	4.0%	4.3%	4.4%	6.1%
Taft	2.2%	3.9%	4.8%	5.0%	5.9%	5.7%	5.6%
Ventura	3.3%	3.5%	4.6%	4.0%	3.8%	4.2%	4.4%
Victor Valley	2.6%	1.8%	2.1%	1.1%	1.1%	2.2%	1.9%
West Hills Coalinga	7.1%	12.4%	15.1%	11.0%	10.5%	16.6%	27.5%
West Hills Lemoore	2.0%	2.8%	4.2%	2.9%	5.0%	3.8%	6.0%
West Los Angeles	14.8%	12.5%	16.8%	12.8%	15.6%	17.1%	16.2%
West Valley	7.1%	11.7%	4.5%	6.2%	6.2%	7.3%	7.5%
Woodland	4.4%	2.8%	2.6%	2.9%	3.1%	2.9%	13.5%
Yuba	1.2%	1.2%	1.2%	1.6%	1.3%	1.6%	2.0%